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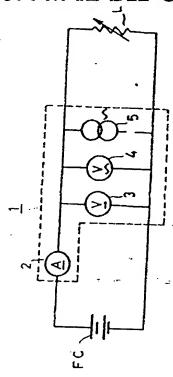
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TITLE

TEMPERATURE CONTROL DEVICE OF

FUEL CELL



ABSTRACT:

PURPOSE: To detect the cell temperature from outside by measuring the internal

impedance of a cell.

CONSTITUTION: An impedance measuring device 1 is connected between a fuel cell FC and a load L and is composed of a DC ammeter 2, a DC voltmeter 3, an AC voltmeter 4, and a constant-frequency, constant-current AC generator 5. The AC generator 5 feeds currents in parallel to the cell FC and the DC load L, and the AC voltage displayed on the AC voltmeter 4 is generated by the resultant impedance Zr of the internal impedance Z of the fuel cell FC and the load resistance R. Accordingly, individual detection signals from the impedance measuring device 1 are inputted to a control unit 6 to calculate the internal impedance Z of the cell. The value of this Z depends on the cell temperature, thereby this Z is used as an output signal to regulate a damper 7 and a blower 8 so as to control the feed air temperature and air quantity.

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